



Transportation Packaging Quick Facts

Office of Environmental Management
National Transportation Program



Photo courtesy of Duratek, Inc.

Cask: CNS 10-160B

Manufacturer: Duratek, Inc.

Certification: USA/9204/B(U)-85, Revision 6 (expires October 31, 2005)

General Description: The CNS 10-160B is a cylindrical carbon steel- and lead-shielded cask [with a wall thickness of 5 inches (12.7 centimeters), of which 1.875 inches (4.8 centimeters) is lead] designed to transport radioactive waste. It is transported in the upright position and equipped with steel-encased, rigid polyurethane foam impact limiters on the top and bottom.

Packaging Type: B

Gross Weight: Packaging and contents 72,000 pounds (32,727.3 kilograms) [empty packaging with lids: 57,500 pounds (26,136.4 kilograms) with impact limiters; 47,000 pounds (21,363.6 kilograms) without impact limiters; payload weight 14,500 pounds (6,590.9 kilograms)]

Capacity: Ten 55-gallon (208.2-liter) drums or a 160-foot³ (4.5-meter³) liner

Overall Dimensions: Outer diameter 78.5 inches (199.4 centimeters) [102 inches (259.8 centimeters) with impact limiters]; height 88 inches (223.5 centimeters) [130 inches (330.2 centimeters) with impact limiters]

Cavity Size: Height 77 inches (195.6 centimeters), diameter 68 inches (172.7 centimeters)

Mode of Transport: Truck

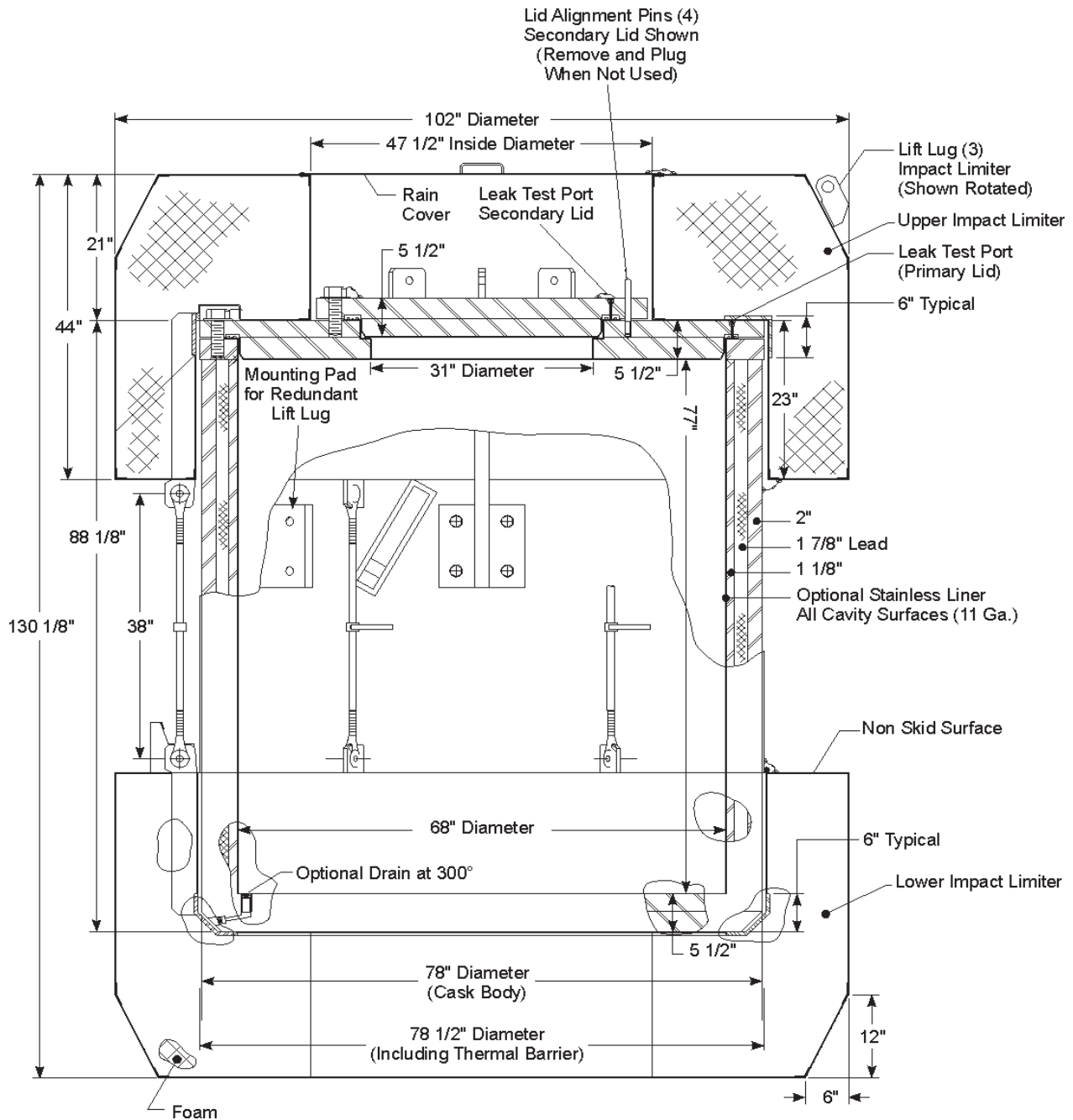
Use: The cask is authorized by the U.S. Nuclear Regulatory Commission (NRC) to carry a payload of 14,500 pounds (6,590.9 kilograms) of Type B quantity radioactive byproduct, source, or special nuclear material. Contents must be fissile-exempt with a plutonium activity not greater than 20 curies (0.74 terabecquerels). NRC also approved the cask for shipping remote-handled transuranic (TRU) waste.

Frequency of Use: Approximately 25 cubic meters of TRU waste from the Battelle Columbus Laboratories Decommissioning Project in Ohio are expected to be shipped in 2002. It is estimated that the CNS 10-160B cask can be used to transfer this volume in 15 to 20 shipments.

Loading Process: Using a five-ton overhead crane, the cask is loaded with two five-drum baskets, stacked one on top of the other.

Owner: Duratek, Inc.
Columbia, SC





CNS 10-160B

Additional information on DOE's National Transportation Program may be obtained from:

National Transportation Program
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400, MS SC-5
Albuquerque, NM 87185-5400

Phone: 505-845-6134
Fax: 505-845-5508

Website:
<http://www.ntp.doe.gov/>

DOE Center for Environmental
Management Information
P.O. Box 23769
Washington, DC 20026-3769

1-800-7EM-DATA
1-800-736-3282

Website:
<http://www.em.doe.gov/>

Transportation Resource Exchange Center
ATR Institute
University of New Mexico
1001 University Blvd., SE
Albuquerque, NM 87106-4342

Phone: 1-877-287-TREX (8739)
Fax: 505-246-6001
email: trex@unm.edu

Website:
<http://www.trex-center.org/>